Data Sheet
Fujitsu PRIMERGY TX100 S2 Server

Enter the world of TX servers - now with 0-Watt functionality

PRIMERGY TX industry standard tower servers: efficient, rock solid, record-breaking performance. PRIMERGY TX servers benefit from over 20 years pioneering work in the field of Green IT. That is how TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. TX servers can easily be managed via the free of charge PRIMERGY ServerView Suite, saving IT admin costs. That's efficient performance. Our made-to-measure service packages take care of your system every step of the way. Rest assured, PRIMERGY TX servers are put through 5000 boot cycles - that's rock solid performance. PRIMERGY TX servers are flexible systems capable of using up to two processors and up to 20 hard disks. Tower to rack mounting kits are available for most TX systems to help you move to a consolidated rack infrastructure. TX servers have a tradition of setting record-breaking performance levels. So, whether you use them as tower or rack servers, for file, print or application purposes, you will benefit from record-breaking performance. PRIMERGY TX: a tower of strength.

PRIMERGY TX100 S2

PRIMERGY TX100 S2: enter the world of servers. It is the perfect server for SMEs looking to increase efficiency by centralizing their IT tasks, and it offers a great price-performance ratio. Moreover, the TX100 S2 is incredibly silent making it an excellent choice for any office environment. With its revolutionary 0-Watt functionality in off-mode and an 88% efficient power supply unit, the TX100 S2 minimizes costs and the environmental impact. The use of data security features such as ECC memory and optional RAID 5/6 ensures around-the-clock reliability. Finally, the TX100 S2 offers a choice of Intel® processors suited to the needs of SMEs. Step into the world of PRIMERGY servers.

Green IT

Features and Benefits

Main Features	Benefits
■ The wide array of configurable processors, up to Intel® Xeon® processors 3400 series, plus a range of budget options, make the PRIMERGY TX100 S2 an excellent first server for SMEs	■ Great price-performance ratio
■ 0-Watt power consumption in off-mode and power supply unit (PSU) with 88% energy efficiency	■ Benefit from Fujitsu's pioneering experience in Green IT - save money and minimize the environmental impact
■ Low noise levels	■ Effective air flow design ensures a silent system for an ergonomic working environment.
■ Server reliability and security thanks to the use of components such as Intel® 3420 server chipset, ECC memory, optional Trusted Platform Module (TPM) and optional SATA RAID 5/6	■ Keep business processes going - 24x7
■ Available with two different base units with a maximum of either 2 or 4 hard disks.	■ Flexibility

Technical details

Housing type		
Hard disk architecture	2 HDD	4 HDD
Mainboard		
Mainboard type	D 2779	
Chipset	Intel® 3420	
Processor quantity and type	1 x Intel® Celeron® processor / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Xeon® processor X3400 series	
Processor	Intel® Celeron® processor G1101 (2C, 2.26 GHz, TLC: 2 MB, Turbo: No, 1066 MHz, 73 W)	
	Intel® Core™ i3-540 processor (2C/4T, 3.06 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)	
	Intel® Core™ i3-550 processor (2C/4T, 3.20 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)	
	Intel® Pentium® processor G6950 (2C, 2.80 GHz, TLC: 3 MB, Turbo: No, 1066 MHz, 73 W)	
	Intel® Xeon® processor X3430 (4C/4T, 2.40 GHz, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3440 (4C/8T, 2.53 GHz, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)	
	Intel® Xeon® processor X3450 (4C/8T, 2.66 GHz, TLC: 8 MB, Turbo: 1/1/4/4, 1333 MHz, 95 W)	
Memory slots	4	
Memory slot type	DIMM (DDR3)	
Memory capacity (min. - max.)	1 GB - 16 GB	
Memory protection	ECC	
Memory notes	Mix and match possible, with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.	
Memory modules	1 GB (1 module(s) 1 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM	
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM	
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM	
Memory modules notes	Only UDIMM (unbuffered) supported	
Interfaces		
USB ports	11 (2 x front, 6 x back, 3 x internal)	
Graphics (15-pin)	1 x VGA (ATI ES1000 (64MB) on board)	
Serial 1 (9-pin)	1 x RS232	
Parallel (25-pin)	1 x ECP / EPP parallel port (25 pin) - optional	
LAN / Ethernet (RJ-45)	1 x Gbit/s Ethernet	
I/O controller on board		
Serial ATA total	6	
RAID Controller	4 port SATA with RAID 0, 1, 10 for HDDs (Intel PCH 3420)	
SATA Controller	SATA2 (3GBit)	
LAN Controller	Intel® 82578DM, 10/100/1000 Mbit/s Ethernet, PXE-Boot by LAN via PXE-Server, Teaming supported	
Trusted Platform Module (TPM)	Infineon / 1.2 (option)	
Slots		
PCI-Express 2.0 x4 (mech. x16)	1 x using x4 notched connector	
PCI-Express 2.0 x8	2 x	
PCI slots	1 x	

Slots	
Slot Notes	PCI 32/33 MHz, 3.3V, full-height slot with low-profile-option available
Drive bays	
Hard disk bay configuration	2 or 4 depending on chosen base unit (3.5" easy change SATA). It is not possible to upgrade the system in the field from 2 to 4 hard disks.
Notes accessible drives	1 bay occupied by DVD/DVD-RW 1x 3.5
Drive bays (Base unit specific)	
Hard disk bays	2 4
General software information	
Fan configuration	Silent system fans
Fan notes	Non hot-plug
Operating panel	
Operating buttons	On/off switch
Status LEDs	Power (green)
Operating Systems and Virtualization Software	
Certified or supported operating systems and virtualization software	Microsoft® Microsoft® Hyper-V™ Server 2008 R2
	Microsoft® Windows Server® 2008 R2 Datacenter
	Microsoft® Windows Server® 2008 R2 Enterprise
	Microsoft® Windows Server® 2008 R2 Standard
	Microsoft® Windows Server® 2008 R2 Foundation
	Microsoft® Microsoft® Windows Web Server 2008 R2
	Microsoft® Windows® Small Business Server Essentials 2011
	Microsoft® Windows® Small Business Server 2011 Premium Add-On
	Microsoft® Windows® Small Business Server Standard 2011
	Microsoft® Windows® Server 2008 Enterprise
	Microsoft® Windows® Server 2008 Standard
	Microsoft® Microsoft® Windows® Small Business Server 2008 Standard
	Microsoft® Microsoft® Windows® Small Business Server 2008 Premium
	Microsoft® Windows Server® 2003 Enterprise Edition
	Microsoft® Windows Server® 2003 Standard Edition
	Microsoft® Windows Server® 2003 Web Edition
	Novell® SUSE Linux Enterprise Server 11
	Novell® SUSE Linux Enterprise Server 10
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421
Operating system notes	Support of other Linux derivatives on demand
Server Management	
Standard	ServerView Installation Manager
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.
Dimensions / Weight	
Floor-stand (W x D x H)	203 x 386 x 390 mm
Weight	12 kg
Environmental	
Noise emission	According to ISO9296
Sound pressure (LpAm)	24 dB(A) (idle)/ 24 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	3.9B (idle)/ 3.9B (operating)
Operating ambient temperature	10 - 35°C

Environmental	
Operating temperature note	ETSI 300 019-2-3 Class 3.1
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Electrical values	
Power supply configuration	1
Standard power supply output	250 W
Rated voltage range	100 V - 127 V / 200 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	100 V – 240 V / 6.0 A – 3.0 A
Rated current in basic configuration	100 – 240 V / 1,5 – 0,6 A
Active power (min. configuration)	26 W
Active power (max. configuration)	171 W
Apparent power (max. configuration)	171 VA
Heat emission	615.6 kJ/h (583.5 BTU/h)
Power Supply Notes	Fujitsu patented 0-Watt standby technology
Compliance	
Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Components

Hard disk drives	HDD SATA, 3 Gb/s, 1000 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical
	HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical
	HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, non-hot-plug, 3.5-inch, economic
	HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, non-hot-plug, 3.5-inch, business critical
Hard disk notes	None of the hard disks for this system are hot-plug. Only SATA HDDs supported.
Tape Drives	DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0
	DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0
	RDX Drive, 80 GB, 160 GB, 320 GB, 500 GB, 25 MB/s, half height, USB 2.0
Optical drives	Blu-ray Disc™ Triple Writer, (4x BD-RW; 16x DVD; 40x CD), half height, SATA I
	DVD-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I
RAID Controller	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu , 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)
Notes	The optional BBU is not available for the TX100 S2.

LAN Controller	Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PT Server Adapter
	Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu

Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)
Maintenance and Support Services - the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4h.
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX100 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX100 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/Primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see http://ts.fujitsu.com/terms_of_use.html
Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner

Contact
FUJITSU LIMITED
Mies-van-der-Rohe-Straße 8
80807 München
Germany
Website: www.ts.fujitsu.com
2011-05-03 CE-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.
Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see http://ts.fujitsu.com/terms_of_use.html
Copyright © Fujitsu Technology Solutions